## **SEARCH REQUEST FORM**

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S	cientific and Technic	al Information Center	2/2/2-
Requester's Full Name David Art Unit: 1653 Phone	Number 30 8 • 3 2		12 164
If more than one search is subn	ir Rm; 9B05	sults Format Preferred (circle): PAP	
		atment of Circulatory Dysfunctions	
<u>Applicants</u> : MOLINI FRANCISCO PUBILI NEGRIE; LLORENTI	ER, JOSE REPOLLES L; RIUDAVETS, JUA E, LYDIA CABEZA; S	; PEREZ-RASILLA, EDUARDO ; N-ANTONIO CERDA; ROFES, C SISO, ALICIA FERRER; ADROH ORENO, JESUS MURAT; LLAG	SALAS; COY, RISTINA ER, NURIA
Earliest Priority Date:	1/27/99		
		* * * *	
Applicants are clair	ning each of the two	genera of compounds below.	
$R^1 = C_{1-4} alkyl$	;		. 5. S.
$R^2$ = phenyl;			OEIVE
X = -O-	or -S-	or -NCH <sub>3</sub> -	
R R R R R R R R R R R R R R R R R R R	= 0 H	S-N=	= 0 OH
Point of Contact	Point of Contact P. Sheppard Telephone number: (703)		
P. Sheppard ************************************	·	**************************************	
STAFF USE ONLY	Type of Search	Vendors and cost where appl	
earcher:	NA Sequence (#)	STN	
earcher Phone #:	AA Sequence (#)	Dialog	
earcher Location: rate Searcher Picked Up:	Structure (#)	Questel/Orbit	
rate Completed: 2/2//03	Bibliographic	Dr.Link	
earcher Prep & Review Time:	Fulltext	Lexis/NexisSequence Systems	
lerical Prep Time:	Patent Family	WWW/Internet	

Online Time:

Other

Other (specify)

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FILE COVERS 1907 - 21 Feb 2003 | VOL 135 ISS 9 FILE LAST UPDATED: 20 Feb 2003 | (20030220/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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7 9 0 08 0

G3 C N C CH

VAR G3=ME/ET/I-FF/N-FR/I-FU/N-BU/T-BU/S-BU NODE ATTRIBUTES: NSPEC IS BC AT 8 DEFAULT MLEMEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GFAFH ATTFIPUTES:

FING(S) ARE ISCLATED OR EMBEDDED NUMBER OF NODES IS 12

STEREC ATTRIBUTES: NONE

LT 23 SEA FILE=HEGISTRY SSS FUL L5

L8 STR

∠6 Cb

C 25

Cb C C S N C 19 20 021 22 23 24

> S N C-16 17 18

VAR G1=0/S N

VAR G2=14/U1 VAR G3=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU

NOUE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

FING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF MODES IS 26

STEREO ATTRIBUTES: NONE

L10 3 SEA FILE=REGISTRY SUB=L7 SSS FUL L9 L10 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L9

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L10 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1000:535107 HCAPLUS

ACCESSION NUMBER:

133:150471

TITLE:

Aromatic and heterocyclic S-nitrosothiols useful as agents for the treatment of circulatory dysfunctions Feptiles Moliner, Jose; Salas Perez-Rasilla, Eduardo; Fabill Coy, Francisco; Cerda Riudavets, Juan Antonio; Negrae Roses, Cristina; Cabeza Llorente, Lydia; Ferrer

Sisc, Alicia; Trias Adroher, Nuria; Carbo Banus, Marcelli; Murat Moreno, Jesus; Michelena Llaguno,

Fearo

PATENT ASSIGNEE(S):

SOURCE:

INVENTOR (3 :

Lacer, S.A., Spain. FOT Int. Appl., 46 pp.

CODEN: PIKKD2

DOCUMENT TYPE:

LANGUAGE:

Fatent Spanish

FAMILY ACC. NUM. COUNT: 1

PATENT INFOFMATION:

PATENT NO. K			ΚI	NI.	DATE		APPLICATION NO.					DATE				
WO 2000044714 A1			 1	20000813		MO 2000-E919					20000119					
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MG, MK, MN, MW, MM, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TY, TM, TR, TT, UA, UG, US, CZ, VM, YU, ZA, ZW, AM, AZ, BY,
                                          TJ, TE
                  FG, HE, MD, EU,
            PW: 0H, 6M, FE, LS, MW, SE, SL, SZ, EJ, 00, DW, AT, BE, CH, CY, DE, DR, ES, FI, FR, DB, GF, LE, ET, LU, MC, ML, PT, SE, BF, BJ, CF, CG, CI, CM, GA, SN, GW, ME, ME, NE, SN, TD, TG 147162 Al 20000616 ES 1999-15 1990127
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             F: AT, BE, IR, DE, DE, ES, FR, GE, GR, II, LI, LG, ML, SE, MC, PT,
                              17, LV, FI, F0
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       OS 20000018629
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PRIORITY APPIN. INFO.:
                                                          ES 1999-159
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                                                          WO 2000-ES19
                                                                                 W 2000011∋
OTHER SOURCE IN :
                                  MARPAT 18 E:150471
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The invention relates to novel S-nitrosothools derived from penicillamine or glutathiome, of general formula I [wherein A, E = Ph; or AF = CH2-Q-CH2 where I = 0, F, or N-R3; F1 = B or 01-04 alkyl; F1 = 01-01 aliph, adyl or clutaric acid bonded by "garra", -darboxy group; F1 = 0H or glycine radical wonded by peptidic linkage so that R0 = 0H when F1 = aliph, adyl, and R2 = glycine when R1 = glutamic acid]. The compds, exhibit vasodilating and blood plateler aggregation-inhibiting activity, and are useful in the treatment of circulatory system dysfunctions, esp. cardiovascular dysfunctions. For instance, 2-amino-1-(4-mercaptotetrahydropyran-4-yl)acetic acid H01 salt was neutralized with NaCH and then N-acetylated with AcCl in MeCN, and the N-acetyl Moriv, was 3-nitrosylated with H01 and NaNCH in aq. MeOH under schication, to give invention congo. II. In an in vitro assay for basedilation of nonepikephrine-contracted arterial rings, II had an BCSC of 0.375 .mu.M, vs. 1.5e .mu.M for the known comparison compd. S-nitrosoglutathione, and 0.004-1.39 .mu.D for other invention conds. I.

compds. I.
287402-83-9P, N-Acetyl-2-amono-2-[4- S nitrosomeroapte) netranydrogyran-4-yl abetid acid 287402-85-1P,
 N-Acetyl-2-amono-2-[4-(S-nitrosomeroapte)-1-methylpiperidin-4-yl]acetid
 acid 287402-86-2P, N-Acetyl-2-amino-b-:enzyl-b-(S nitrosomeroapte)-4-phenyubutancid acid
 EL: BAT (Fiological activity or effector, except adverse; ESU (Biological study, unclassified); SFN (Synthetic preparation); THU (Therapeutic use);
 BIGL (Biological study); FREP (Preparation); USES (Uses)
 (target compd.; prepn. of arylalkyl-contg. S-nitrosothiols as
 cardiovascular agents)

REFERENCE COUNT: 3 THERE ARE G CITED REFERENCES AVAILABLE FOR THIS

## RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE HAST UPDATED: 01 May 1997 (19970501/UP)
  This file contains CAS Registry Numbers for easy and accurate
  substance identification. Title keywords, authors, patent
  assignees, and patent information, e.g., patent numbers, are
  now searchable from 1907-1966. TIFF images of CA abstracts
  printed between 1997-1966 are available in the PAGE
  display formula.
  This file supports REGISTRY for direct browsing and searching of
  all substance data from the REGISTEN file. Enter HELP FIRST for
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STRUCTURE FILE UPDATES: 20 FEB 2003 HIGHEST AN 49.991-8-8 DICTICNARY FILE UPDATES: 20 FEB 2003 HIGHEST AN 492991-99-8
TSCA INFORMATION NOW CURFENT THROUGH MAY 20, 2002
  Please note that swarph-term pricing does apply when
  conducting SmartSELECT searches.
Crossover limit - have been increased. See HELF CROSSOVER for details.
Experimental and calculated property data are now available. See HELP
FFORESTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf
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     287402-86-2 REGISTRY
RII
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## Lukton 09 912164

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-2N
     Benzenebutanoic acid, .alpha.- acetylamino) - .beta.- (nitrosothio) - .beta.-
     (phenylmethyl) - (901) (CA INDEX NAME)
OTHER NAMES:
CH
     N-Acetyl-2-amino-3-benzyl-3-(S-nitrosomercapto)-4-phenylbutanoic acid
FS
     3D CONCORD
      019 H2T NT 04 S
MF
SR
     F.
     GTN Files: CA, CAPLUS, USPATFULL
    ARH 3 NO
HU2C OH C OH; Ph
          CH; Ph
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
                1 REFERENCES IN FILE CA (1962 TO DATE)
                1 REFERENCES IN FILE CAPLUS (1962 TO DATE)
EEFERENCE 1: 133:150471
100
     AUSWER L 1F 3 FEGISTRY COPYRIGHT 2003 ACS
F 11
     L-7402-:8-1 REGISTRY
     G-Puper:dineacetic acid, .alpha.-(acetylamino)-1-methyl-4-(nitrosothio)-
     (OCI) (CA INDEX NAME)
OTHER NAMES:
     M-Abetyl-P-amint-2-[4-[S-nitrospmercapto]-1-methylpiperidin-4-yl]acetic
     abid
23
     NO COMPOSE.
     210 H17 NE 04 S
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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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FREEDUCE 1: 133:150471
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     ALSWER : OF 3 REGISTRY COFYRIGHT 2003 ACS
     .37402-33-9 FEGISTRY
F 11
-111
     LM-Pyran-4-acetic acid, .alpha.-(acetylamino)tetrahydro-4-(nitrosothio)-
      [PCI: (CA INDEX NAME)
OTHER MAMES:
     M-Acetyl-2-aminc-2-[4-(S-nitrosomercapto)tetrahydropyran-4-yl]acetic acid
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115
     0: H14 N2 05 S
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Lukton 09 912164

LC STN Files: CA, CAPLUS, USPATFULL

NHAc

HO2C CH

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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE) 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 133:150471

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